

What is claimed is:

1. A positive type colored photosensitive resin composition comprising a copolymer which comprises repeating units derived from styrene and repeating units derived from hydroxystyrene, a
5 ratio (molar ratio) of the latter repeating units to the former repeating units is from 1:0.7 to 1:20 and has a polystyrene-converted weight average molecular weight of 6,000 to 15,000, as an alkali-soluble resin.

2. The positive type colored photosensitive resin
10 composition according to claim 1, which comprises a positive type colored photosensitive resin composition comprising a photo active compound, a curing agent and a solvent in addition to the alkali-soluble resin.

3. The positive type colored photosensitive resin
15 composition according to claim 1, which further comprises a novolak resin as an additional alkali-soluble resin.

4. The positive type colored photosensitive resin composition according to claim 1, which contains a dye in an amount of 40 to 70 parts by weight per 100 parts by weight of the solid
20 components of the resin composition.

5. The positive type colored photosensitive resin composition according to claim 2, which contains the photo active compound in an amount of 10 to 30 parts by weight per 100 parts by weight of the solid components of the resin composition.

25 6. The positive type colored photosensitive resin composition according to claim 2, which contains the curing agent in an amount of 10 to 20 parts by weight per 100 parts by weight of the solid components of the resin composition.

7. The positive type colored photosensitive resin composition according to claim 1 or 3, which contains the alkali-soluble resin or resins in an amount of 1 to 20 parts by weight per 100 parts by weight of the solid components of the resin composition.

8. The positive type colored photosensitive resin composition according to claim 1 or 2, which comprises 40 to 70 parts by weight of the dye, 10 to 30 parts by weight of the photo active compound, 10 to 20 parts by weight of the curing agent and 1 to 20 parts by weight of the alkali-soluble resin.

9. The positive type colored photosensitive resin composition according to claim 2, which contains the solvent in an amount of 230 to 400 parts by weight per 100 parts by weight of the solid components of the resin composition.

10. A color filter formed of a colored photosensitive resin composition according to claim 1.

11. The color filter according to claim 1, which has plural patterns of different colors and which is produced by applying a colored photosensitive resin composition according to claim 1 which has a first color, removing volatile components from the applied resin composition to form a coating film, exposing the coating film through a mask, developing the exposed coating film and heating and curing the developed coating film to form pixels, then repeating the above steps using a colored photosensitive resin composition according to claim 1 having a second color which is different from the first color, and repeating the above steps using a colored photosensitive resin composition according to claim 1 having a third color which is different from the first

and second colors.

12. A solid state image pickup device comprising a color filter according to claim 10 or 11.